

# **Consortium Clinical Group**

# Management of respiratory secretions in the terminal phase

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# **Background:**

Terminal respiratory secretions (known as 'death rattle' or 'noisy breathing') are often observed in an imminently dying person. Despite the symptom occurring in 23 - 92%  $_{(1,3)}$  of patients, there is a lack of robust research to guide assessment or management. The cause of terminal respiratory secretions is unproven, but it is considered to be due to a pooling of respiratory secretions that occurs as a person becomes weaker, loses consciousness and the ability to cough or swallow normally $_{(5,9)}$ . Family members can express concern that terminal respiratory secretions may be distressing to the patient and they require ongoing support and education.

# **Key points to remember**

- The 'death rattle' is a strong predictor of death. After commencement, the median survival time is 23 hours (3)
- A differential diagnosis for the noisy breathing should be considered; including cardiac failure, respiratory infections or gastro-intestinal obstruction. Use clinical judgement to ascertain if further treatment is required
- Providing quality care and support to the patient's family is critical, including bereavement care
- Consider ceasing any additional subcutaneous or intravenous fluids
- The literature search conducted showed no anti-secretory medication was consistently better than another. The research indicates medication may or may not be useful or required (1, 4,5)
- Mouth care and position changes will maximise patient comfort and may help with the secretions
- Clinical experience shows suctioning can be "very uncomfortable for the patient and cause significant...distress" (9). If suctioning is needed, gentle oral suctioning only maybe appropriate (2)
- Implement the management flow chart (on page 3) when the symptom is detected
- Regularly assess the patient's clinical situation and response to any medication administered

# **Guidelines for initiating medication:**

1) Identify the presence of terminal respiratory secretions as soon as they start. Medications are most effective when started at a rattle score of 1 (3). A scoring tool may be used in clinical documentation

	Rattle Intensity Score <sub>(6)</sub>
0	Not audible
1	Only audible near patient
2	Clearly audible at the end of the patients bed in a quiet room
3	Clearly audible at a distance of about 9.5m in a quiet room

- 2) Continue pharmaceutical treatment for 24 hours. Effectiveness improves with time (3)
- 3) Assess the hydration of the mouth as medication will exacerbate dryness
- 4) Drug selection & prescribing is based on the differing pharmacological profiles, prescriber preference, accessibility and the cost of medication (8).





# The patient is dying and has terminal respiratory secretions

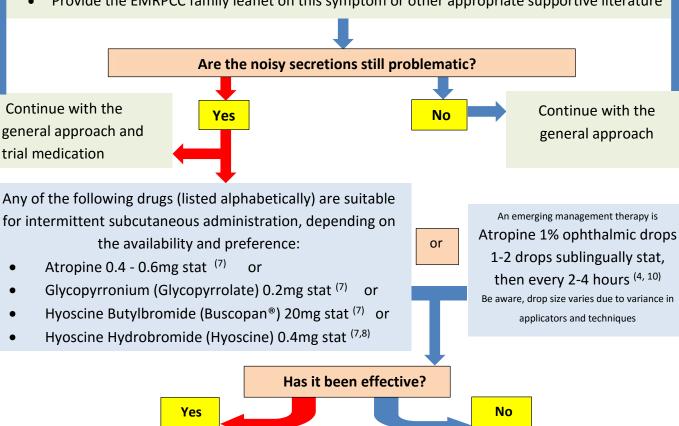
# **GENERAL APPROACH**

# Patient care:

- Nurse the person on their side, reposition to other side every 3-4 hours.
- Elevate the head of the bed slightly, retaining a position of comfort
- Provide frequent mouth care (every 1-2 hours).
- Use background music or a fan to diffuse the sound
- If suctioning is needed, only use gentle oral suctioning

# Family care:

- Explain how & why noisy secretions develop. Emphasising it is a normal part of dying process.
- Give reassurance that the noise & secretions are not distressing for the patient
- Provide the EMRPCC family leaflet on this symptom or other appropriate supportive literature



- Maintain the general approach
- Repeat subcutaneous dose in 4-6 hours as needed

If ongoing doses of medication are required, consider a continuous subcutaneous infusion of either

- Glycopyrronium (Glycopyrrolate) 0.6 - 1.2 mg /24 hours (7) or
- Hyoscine Butylbromide (Buscopan®) 60 - 80mg / 24 hours (initially) and titrating
- Provide ongoing support to family, reiterating the noise is a part of the dying process and not distressing for the patient
- Continue with the general approach (as outlined above)
- An alternate drug or dose may be used but is unlikely to relieve the noise
- Address the grief and bereavement needs of carers & family



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#### **DISCLAIMER**

The information is a guide only and reflects current Victorian palliative care practice and available literature at the time of release. It is the responsibility of the user to ensure information is used correctly in response to the patient/client's clinical situation.

Follow your organisation's policy and procedures regarding management of respiratory secretions and end of life care.

Printed versions can only be considered up to date, one month from the retrieval date, after which the latest version should be accessed from the Eastern Metropolitan Region Palliative Care Consortium website.

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